
The 21st Wireless On-demand Network systems and Services Conference (WONS 2026)

March 2 - 4, 2026

Crans-Montana, Switzerland

<https://2026.wons-conference.org/>

Submit via EDAS: <https://edas.info/newPaper.php?c=34113>

The WONS conference is a unique occasion to enter in contact with a research community made of highly talented and skilled researchers, in a welcoming and open environment. WONS is known for its engaging discussions with a mix of experienced and young researchers that yearly meet in a wonderful mountain setting to share their progress and advance our research area. Furthermore, selected papers will be invited for an extension for a Special Issue dedicated to WONS in Elsevier Computer Communications.

WONS stands for Wireless On-demand Network systems and Services and focuses on different types of wireless LANs, including NextG cellular, mesh and sensor networks, cloud networks, vehicular networks, non-terrestrial networks, and in-body networks. The challenges of this exciting research field are numerous. They include how to provide robust services in highly dynamic, mobile, and extreme environments, how to minimize energy demands or zero out battery usage in favor of renewable energy sources, how to smartly blend multiple wireless technologies available to a network node, and how to make wireless on-demand networks and services self-configurable, adaptive, self-organizing, and self-healing.

This announcement solicits original contributions of both full length (8 pages) and short paper (4 pages). Topics of interest comprise, but are not limited to:

- * 5G and 6G networks
- * Autonomous Vehicles and Self-Driving Networks
- * Cloud/edge/fog computing and networking
- * Cognitive radio networks
- * Connecting the unconnected: on-demand networks for the next billion
- * Cross-layer design
- * Data analytics and ML/AI-driven network systems
- * Digital Twins and Simulation-Based Design
- * Federated and Distributed Learning for Network Intelligence
- * Green Communications and Networking
- * Heterogeneous wireless networks
- * Joint communications, networking, and sensing
- * Implementations and testbeds
- * Internet of Things
- * Intra-body and biomedical on-demand systems
- * Integrated Access and Backhaul technologies
- * Integration of different wireless technologies
- * Localization and mobility management
- * Metaverse-Ready and XR Networking
- * Mobile computing and services

- * Machine learning for wireless communications and networking
- * Network and service management
- * Network configuration, analysis and management via AI
- * Network function virtualization and software-defined networking
- * Non-terrestrial (aerial, space, underwater) networks
- * Novel architectures, protocols, applications, and services
- * Open source networking software and hardware, and open data
- * Open source radio software
- * Open programmable radio access networks (Open RAN)
- * Optical and visible light wireless networks
- * Performance evaluation through simulations, emulations, and real-world experiments
- * Pervasive and ubiquitous computing
- * Quantum networking and quantum key distribution
- * QoS and QoE aspects
- * Resilient and self-healing networks
- * Security, privacy, and trust
- * Social and economic aspects
- * Tactile Internet
- * Theoretical and data-driven modeling and optimization
- * Trustworthy and Explainable AI in Networking
- * Vehicular networks
- * Wireless technologies for NextG networks (millimeter-wave, terahertz, ...)
- * Wireless networking for AI application

We encourage submissions that address these topics from both theoretical and practical perspectives, and that present innovative solutions, algorithms, methodologies, and case studies.

The added value of WONS has always been the community, therefore WONS is an in-person conference.

Important Dates:

- * Register Abstract By: Oct. 24th, 2025
- * Paper Submission Deadline: Oct. 31st, 2025
- * Notification of Acceptance: Dec. 20st, 2025
- * Camera-Ready Paper Submission: Jan. 23, 2026
- * Conference: March 2-4 2026

For more information and updates, please visit the WONS 2026 conference website:

<https://2026.wons-conference.org/>

We look forward to your contributions and to welcoming you to WONS 2026!

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